

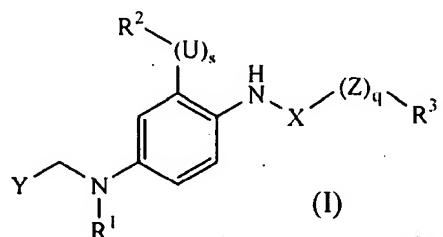
**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

Claim 1 (currently amended): A substituted p-diaminobenzene derivative of the general formula

I



wherein:

s is 0 or 1;

U is O, S, SO<sub>2</sub>, SONR<sup>11</sup>, or CONR<sup>11</sup>; wherein:

R<sup>11</sup> is hydrogen, C<sub>1-6</sub>-alk(en/yn)yl, C<sub>3-8</sub>-cycloalk(en)yl, or C<sub>3-8</sub>-cycloalk(en)yl-C<sub>1-6</sub>-alk(en/yn)yl; or

R<sup>2</sup> and R<sup>11</sup> taken together with the nitrogen atom form a 5-8 membered saturated or unsaturated ring, which optionally contains 1, 2 or 3 further heteroatoms;

q is 0 or 1;

X is CO or SO<sub>2</sub>; with the proviso that q is 0 when X is SO<sub>2</sub>;

Z is O or S;

R<sup>1</sup> is hydrogen, C<sub>1-6</sub>-alk(en/yn)yl, C<sub>3-8</sub>-cycloalk(en)yl, C<sub>3-8</sub>-cycloalk(en)yl-C<sub>1-6</sub>-alk(en/yn)yl, acyl, hydroxy-C<sub>1-6</sub>-alk(en/yn)yl, hydroxy-C<sub>3-8</sub>-cycloalk(en)yl, hydroxy-C<sub>3-8</sub>-cycloalk(en)yl-C<sub>1-6</sub>-alk(en/yn)yl, halo-C<sub>1-6</sub>-alk(en/yn)yl, halo-C<sub>3-8</sub>-cycloalk(en)yl, halo-C<sub>3-8</sub>-cycloalk(en)yl-C<sub>1-6</sub>-alk(en/yn)yl, cyano-C<sub>1-6</sub>-alk(en/yn)yl, cyano-C<sub>3-8</sub>-cycloalk(en)yl or cyano-C<sub>3-8</sub>-cycloalk(en)yl-C<sub>1-6</sub>-alk(en/yn)yl;

$R^2$  is hydrogen,  $C_{1-6}$ -alk(en/yn)yl,  $C_{3-8}$ -cycloalk(en)yl,  $C_{3-8}$ -cycloalk(en)yl- $C_{1-6}$ -alk(en/yn)yl, Ar, Ar- $C_{1-6}$ -alk(en/yn)yl, Ar- $C_{3-8}$ -cycloalk(en)yl, Ar- $C_{3-8}$ -cycloalk(en)yl- $C_{1-6}$ -alk(en/yn)yl, acyl, hydroxy- $C_{1-6}$ -alk(en/yn)yl, hydroxy- $C_{3-8}$ -cycloalk(en)yl, hydroxy- $C_{3-8}$ -cycloalk(en)yl- $C_{1-6}$ -alk(en/yn)yl, halogen, halo- $C_{1-6}$ -alk(en/yn)yl, halo- $C_{3-8}$ -cycloalk(en)yl, halo- $C_{3-8}$ -cycloalk(en)yl- $C_{1-6}$ -alk(en/yn)yl, cyano, cyano- $C_{1-6}$ -alk(en/yn)yl, cyano- $C_{3-8}$ -cycloalk(en)yl, cyano- $C_{3-8}$ -cycloalk(en)yl- $C_{1-6}$ -alk(en/yn)yl, NR<sup>10</sup>R<sup>10'</sup>- $C_{1-6}$ -alk(en/yn)yl, NR<sup>10</sup>R<sup>10'</sup>- $C_{3-8}$ -cycloalk(en)yl or NR<sup>10</sup>R<sup>10'</sup>- $C_{3-8}$ -cycloalk(en)yl- $C_{1-6}$ -alk(en/yn)yl; wherein:

$R^{10}$  and  $R^{10'}$  are each independently hydrogen,  $C_{1-6}$ -alk(en/yn)yl,  $C_{3-8}$ -cycloalk(en)yl,  $C_{3-8}$ -cycloalk(en)yl- $C_{1-6}$ -alk(en/yn)yl, hydroxy- $C_{1-6}$ -alk(en/yn)yl, hydroxy- $C_{3-8}$ -cycloalk(en)yl, hydroxy- $C_{3-8}$ -cycloalk(en)yl- $C_{1-6}$ -alk(en/yn)yl, halo- $C_{1-6}$ -alk(en/yn)yl, halo- $C_{3-8}$ -cycloalk(en)yl, halo- $C_{3-8}$ -cycloalk(en)yl- $C_{1-6}$ -alk(en/yn)yl, cyano- $C_{1-6}$ -alk(en/yn)yl, cyano- $C_{3-8}$ -cycloalk(en)yl or cyano- $C_{3-8}$ -cycloalk(en)yl- $C_{1-6}$ -alk(en/yn)yl; or

$R^{10}$  and  $R^{10'}$  taken together with the nitrogen atom form a 5-8 membered saturated or unsaturated ring, which optionally contains 1, 2 or 3 further heteroatoms; with the proviso that:

when  $R^2$  is halogen or cyano, then s is 0; and

when s is 1 and  $R^2$  is a hydrogen atom or acyl, then U is O or S;

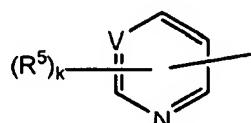
$R^3$  is  $C_{1-6}$ -alk(en/yn)yl,  $C_{3-8}$ -cycloalk(en)yl, heterocycloalk(en)yl,  $C_{3-8}$ -cycloalk(en)yl- $C_{1-6}$ -alk(en/yn)yl,  $C_{1-6}$ -alk(en/yn)yl- $C_{3-8}$ -cycloalk(en)yl,  $C_{1-6}$ -alk(en/yn)yl-heterocycloalk(en)yl, heterocycloalk(en)yl- $C_{1-6}$ -alk(en/yn)yl, Ar, Ar- $C_{1-6}$ -alk(en/yn)yl, Ar- $C_{3-8}$ -cycloalk(en)yl, Ar-heterocycloalk(en)yl, Ar- $C_{3-8}$ -cycloalk(en)yl- $C_{1-6}$ -alk(en/yn)yl, Ar- $C_{1-6}$ -alk(en/yn)yl- $C_{3-8}$ -cycloalk(en)yl, Ar- $C_{1-6}$ -alk(en/yn)yl-heterocycloalk(en)yl,  $C_{1-6}$ -alk(en/yn)yloxy- $C_{1-6}$ -alk(en/yn)yl,  $C_{3-8}$ -cycloalk(en)yloxy- $C_{1-6}$ -alk(en/yn)yl,  $C_{1-6}$ -alk(en/yn)yloxy-heterocycloalk(en)yl, Ar-oxy- $C_{1-6}$ -alk(en/yn)yl, Ar- $C_{1-6}$ -alk(en/yn)yloxy- $C_{1-6}$ -alk(en/yn)yl,  $C_{1-6}$ -alk(en/yn)yloxy-carbonyl- $C_{1-6}$ -alk(en/yn)yl,  $C_{3-8}$ -cycloalk(en)yloxy-carbonyl- $C_{1-6}$ -alk(en/yn)yl, hydroxy- $C_{1-6}$ -alk(en/yn)yl, hydroxy- $C_{3-8}$ -cycloalk(en)yl, hydroxy-heterocycloalk(en)yl, hydroxy- $C_{3-8}$ -cycloalk(en)yl- $C_{1-6}$ -alk(en/yn)yl, hydroxy- $C_{1-6}$ -alk(en/yn)yl- $C_{3-8}$ -cycloalk(en)yl, hydroxy-

C<sub>1-6</sub>-alk(en/yn)yl-heterocycloalk(en)yl, halo-C<sub>1-6</sub>-alk(en/yn)yl, halo-C<sub>3-8</sub>-cycloalk(en)yl, halo-heterocycloalk(en)yl, halo-C<sub>3-8</sub>-cycloalk(en)yl-C<sub>1-6</sub>-alk(en/yn)yl, halo-C<sub>1-6</sub>-alk(en/yn)yl-C<sub>3-8</sub>-cycloalk(en)yl, halo-C<sub>1-6</sub>-alk(en/yn)yl-heterocycloalk(en)yl, ~~halo C<sub>1-6</sub>-alk(en/yn)yl-Ar, halo C<sub>3-8</sub>-cycloalk(en)yl-C<sub>1-6</sub>-alk(en/yn)yl-Ar, halo C<sub>1-6</sub>-alk(en/yn)yl-C<sub>3-8</sub>-cycloalk(en)yl-Ar, cyano-C<sub>1-6</sub>-alk(en/yn)yl, cyano-C<sub>3-8</sub>-cycloalk(en)yl, cyano-heterocycloalk(en)yl, cyano-C<sub>3-8</sub>-cycloalk(en)yl-C<sub>1-6</sub>-alk(en/yn)yl, cyano-C<sub>1-6</sub>-alk(en/yn)yl-C<sub>3-8</sub>-cycloalk(en)yl, cyano-C<sub>1-6</sub>-alk(en/yn)yl-heterocycloalk(en)yl, acyl-C<sub>1-6</sub>-alk(en/yn)yl, acyl-C<sub>3-8</sub>-cycloalk(en)yl, acyl-heterocycloalk(en)yl, acyl-C<sub>3-8</sub>-cycloalk(en)yl-C<sub>1-6</sub>-alk(en/yn)yl, acyl-C<sub>1-6</sub>-alk(en/yn)yl-C<sub>3-8</sub>-cycloalk(en)yl, acyl-C<sub>1-6</sub>-alk(en/yn)yl-heterocycloalk(en)yl, NR<sup>12</sup>R<sup>12'</sup>, optionally substituted NR<sup>12</sup>R<sup>12'</sup>-C<sub>1-6</sub>-alk(en/yn)yl, optionally substituted NR<sup>12</sup>R<sup>12'</sup>-C<sub>3-8</sub>-alk(en/yn)yl, or optionally substituted NR<sup>12</sup>R<sup>12'</sup>-C<sub>3-8</sub>-alk(en/yn)yl-C<sub>1-6</sub>-alk(en/yn)yl; wherein:~~

R<sup>12</sup> and R<sup>12'</sup> are each independently hydrogen, C<sub>1-6</sub>-alk(en/yn)yl, C<sub>3-8</sub>-cycloalk(en)yl, C<sub>3-8</sub>-cycloalk(en)yl-C<sub>1-6</sub>-alk(en/yn)yl, Ar, Ar-C<sub>1-6</sub>-alk(en/yn)yl, Ar-C<sub>3-8</sub>-cycloalk(en)yl, Ar-C<sub>3-8</sub>-cycloalk(en)yl-C<sub>1-6</sub>-alk(en/yn)yl, Ar-heterocycloalk(en)yl, Ar-oxy-C<sub>1-6</sub>-alk(en/yn)yl, Ar-oxy-C<sub>3-8</sub>-cycloalk(en)yl, Ar-oxy-C<sub>3-8</sub>-cycloalk(en)yl-C<sub>1-6</sub>-alk(en/yn)yl, Ar-oxy-heterocycloalk(en)yl, hydroxy-C<sub>1-6</sub>-alk(en/yn)yl, hydroxy-C<sub>3-8</sub>-cycloalk(en)yl, hydroxy-C<sub>3-8</sub>-cycloalk(en)yl-C<sub>1-6</sub>-alk(en/yn)yl, halo-C<sub>1-6</sub>-alk(en/yn)yl, halo-C<sub>3-8</sub>-cycloalk(en)yl, halo-C<sub>3-8</sub>-cycloalk(en)yl-C<sub>1-6</sub>-alk(en/yn)yl, cyano-C<sub>1-6</sub>-alk(en/yn)yl, cyano-C<sub>3-8</sub>-cycloalk(en)yl, or cyano-C<sub>3-8</sub>-cycloalk(en)yl-C<sub>1-6</sub>-alk(en/yn)yl; or

R<sup>12</sup> and R<sup>12'</sup> taken together with the nitrogen atom form a 5-8 membered saturated or unsaturated ring, which optionally contains 1, 2 or 3 further heteroatoms; with the proviso that when R<sup>3</sup> is NR<sup>12</sup>R<sup>12'</sup> then q is 0; and

Y is a group of formula XXXXI:



XXXXI

wherein:

" | " represents a bond attaching the group represented by Y to the carbon atom;  
V is C or CH; and

k is 0, 1, 2 or 3; and

each R<sup>5</sup> is independently C<sub>1-6</sub>-alk(en/yn)yl, C<sub>3-8</sub>-cycloalk(en)yl, C<sub>3-8</sub>-cycloalk(en)yl-C<sub>1-6</sub>-alk(en/yn)yl, Ar, Ar-C<sub>1-6</sub>-alk(en/yn)yl, Ar-C<sub>3-8</sub>-cycloalk(en)yl, Ar-C<sub>3-8</sub>-cycloalk(en)yl-C<sub>1-6</sub>-alk(en/yn)yl, Ar-oxy, Ar-oxy-C<sub>1-6</sub>-alk(en/yn)yl, Ar-oxy-C<sub>3-8</sub>-cycloalk(en)yl, C<sub>1-6</sub>-alk(en/yn)yl-heterocycloalk(en)yl, Ar-oxy-C<sub>3-8</sub>-cycloalk(en)yl-C<sub>1-6</sub>-alk(en/yn)yl, acyl, C<sub>1-6</sub>-alk(en/yn)yloxy, C<sub>3-8</sub>-cycloalk(en)yloxy, C<sub>3-8</sub>-cycloalk(en)yl-C<sub>1-6</sub>-alk(en/yn)yloxy, C<sub>1-6</sub>-alk(en/yn)yloxy-carbonyl, halogen, halo-C<sub>1-6</sub>-alk(en/yn)yl, halo-C<sub>3-8</sub>-cycloalk(en)yl, halo-C<sub>3-8</sub>-cycloalk(en)yl-C<sub>1-6</sub>-alk(en/yn)yl, -CO-NR<sup>6</sup>R<sup>6</sup>, cyano, cyano-C<sub>1-6</sub>-alk(en/yn)yl, cyano-C<sub>3-8</sub>-cycloalk(en)yl, cyano-C<sub>3-8</sub>-cycloalk(en)yl-C<sub>1-6</sub>-alk(en/yn)yl, NR<sup>7</sup>R<sup>7</sup>, S-R<sup>8</sup> or SO<sub>2</sub>R<sup>8</sup>; or

two adjacent R<sup>5</sup> groups taken together with the aromatic group form a 5-8 membered ring, which optionally contains one or two heteroatoms; wherein:

R<sup>6</sup> and R<sup>6</sup> are each independently hydrogen, C<sub>1-6</sub>-alk(en/yn)yl, C<sub>3-8</sub>-cycloalk(en)yl, C<sub>3-8</sub>-cycloalk(en)yl-C<sub>1-6</sub>-alk(en/yn)yl or Ar;

R<sup>7</sup> and R<sup>7</sup> are each independently hydrogen, C<sub>1-6</sub>-alk(en/yn)yl, C<sub>3-8</sub>-cycloalk(en)yl, C<sub>3-8</sub>-cycloalk(en)yl-C<sub>1-6</sub>-alk(en/yn)yl, Ar, heterocycloalk(en)yl-C<sub>1-6</sub>-alk(en/yn)yl, heterocycloalk(en)yl-C<sub>3-8</sub>-cycloalk(en)yl, heterocycloalk(en)yl-C<sub>3-8</sub>-cycloalk(en)yl-C<sub>1-6</sub>-alk(en/yn)yl, heterocycloalk(en)yl-Ar or acyl; or

R<sup>7</sup> and R<sup>7</sup> taken together with the nitrogen atom form a 5-8 membered saturated or unsaturated ring which optionally contains 1, 2 or 3 further heteroatoms; and

R<sup>8</sup> is hydrogen, C<sub>1-6</sub>-alk(en/yn)yl, C<sub>3-8</sub>-cycloalk(en)yl, C<sub>3-8</sub>-cycloalk(en)yl-C<sub>1-6</sub>-alk(en/yn)yl, Ar or -NR<sup>9</sup>R<sup>9</sup>; wherein:

R<sup>9</sup> and R<sup>9</sup> are each independently hydrogen, C<sub>1-6</sub>-alk(en/yn)yl, C<sub>3-8</sub>-cycloalk(en)yl or C<sub>3-8</sub>-cycloalk(en)yl-C<sub>1-6</sub>-alk(en/yn)yl;

or salts thereof.

Claim 2 (previously presented): The compound according to claim 1, wherein R<sup>1</sup> is C<sub>1-6</sub>-alk(en/yn)yl or a hydrogen atom.

Claim 3 (previously presented): The compound according to claim 1, wherein s is 0.

Claim 4 (previously presented): The compound according to claim 1, wherein s is 1.

Claim 5 (previously presented): The compound according to claim 4, wherein U is an oxygen atom.

Claim 6 (previously presented): The compound according to claim 1, wherein R<sup>2</sup> is hydrogen, C<sub>1-6</sub>-alk(en/yn)yl, C<sub>3-8</sub>-cycloalk(en)yl, Ar, Ar-C<sub>1-6</sub>-alk(en/yn)yl, halogen, halo-C<sub>1-6</sub>-alk(en/yn)yl or cyano; with the provisos that when R<sup>2</sup> is halogen or cyano, then s is 0; and when s is 1 and R<sup>2</sup> is a hydrogen atom, then U is O or S.

Claim 7 (previously presented): The compound according to claim 1, wherein Z is an oxygen atom.

Claim 8 (previously presented): The compound according to claim 1, wherein Z is a sulfur atom.

Claim 9 (previously presented): The compound according to claim 1, wherein q is 0.

Claim 10 (previously presented): The compound according to claim 1, wherein q is 1.

Claim 11 (previously presented): The compound according to claim 1, wherein X is CO.

Claim 12 (previously presented): The compound according to claim 1, wherein R<sup>3</sup> is C<sub>1-6</sub>-alk(en/yn)yl, C<sub>3-8</sub>-cycloalk(en)yl, C<sub>3-8</sub>-cycloalk(en)yl-C<sub>1-6</sub>-alk(en/yn)yl, heterocycloalk(en)yl-C<sub>1-6</sub>-alk(en/yn)yl, heterocycloalk(en)yl, Ar, Ar-C<sub>1-6</sub>-alk(en/yn)yl, Ar-oxy-C<sub>1-6</sub>-alk(en/yn)yl, Ar-C<sub>1-6</sub>-alk(en/yn)yoxy-C<sub>1-6</sub>-alk(en/yn)yl, C<sub>1-6</sub>-alk(en/yn)yoxy-carbonyl-C<sub>1-6</sub>-alk(en/yn)yl, halo-C<sub>1-6</sub>-alk(en/yn)yl, NR<sup>12</sup>R<sup>12</sup>, optionally substituted NR<sup>12</sup>R<sup>12</sup>-C<sub>1-6</sub>-alk(en/yn)yl, or optionally substituted NR<sup>12</sup>R<sup>12</sup>-C<sub>3-8</sub>-cycloalk(en)yl.

Claim 13 (previously presented): The compound according to claim 12, wherein R<sup>12</sup> and R<sup>12</sup>' are each independently hydrogen, C<sub>1-6</sub>-alk(en/yn)yl or Ar.

Claims 14-20 (cancelled).

**Claim 21 (previously presented):** The compound according to claim 1, wherein V is CH.

**Claims 22-24 (cancelled).**

**Claim 25 (previously presented):** The compound according to claim 1, wherein each R<sup>5</sup> is independently C<sub>1-6</sub>-alk(en/yn)yl, C<sub>1-6</sub>-alk(en/yn)yl-heterocycloalk(en)yl, Ar, C<sub>1-6</sub>-alk(en/yn)yloxy, Ar-oxy, C<sub>1-6</sub>-alk(en/yn)yloxy-carbonyl, halogen, halo-C<sub>1-6</sub>-alk(en/yn)yl, NR<sup>7</sup>R<sup>7</sup>, S-R<sup>8</sup> or SO<sub>2</sub>R<sup>8</sup>; or two adjacent R<sup>5</sup> groups taken together with the aromatic group form a 5-8 membered ring, which optionally contains one or two heteroatoms.

**Claim 26 (previously presented):** The compound according to claim 25, wherein both R<sup>7</sup> and R<sup>7</sup> are C<sub>1-6</sub>-alk(en/yn)yl.

**Claim 27 (previously presented):** The compound according to claim 25, wherein R<sup>8</sup> is C<sub>1-6</sub>-alk(en/yn)yl or Ar.

**Claim 28 (previously presented)** The compound according to claim 1, wherein the compound is:

2-(4-Fluorophenyl)-N-{2-methyl-4-[(6-p-tolyloxypyridin-3-ylmethyl)-amino]-phenyl}-acetamide;

2-(4-Fluorophenyl)-N-{2-methyl-4-[(6-trifluoromethylpyridin-3-ylmethyl)-amino]-phenyl}-acetamide;

3,3-Dimethyl-N-{2-methyl-4-[(6-p-tolyloxypyridin-3-ylmethyl)-amino]-phenyl}-butyramide;

3,3-Dimethyl-N-{2-methyl-4-[(6-trifluoromethylpyridin-3-ylmethyl)-amino]-phenyl}-butyramide;

N-(4-{[6-(4-Cyanophenoxy)-pyridin-3-ylmethyl]-amino}-2-methylphenyl)-2-(4-fluorophenyl)-acetamide;

N-{4-[(6-Chloropyridin-3-ylmethyl)-amino]-2-methylphenyl}-2-(4-fluorophenyl)-acetamide; or

2,2-Dimethyl-N-{2-methyl-4-[(6-phenoxyppyridin-3-ylmethyl)-amino]-phenyl}-proprionamide;

or a salt thereof.

*Application Serial No. 10/550,448 (Attorney Docket No. 427-US-PCT)*

*Response to Final Office Action*

*Dated: May 11, 2009*

*Page 8 of 9*

Claim 29 (previously presented) A pharmaceutical composition comprising one or more pharmaceutically acceptable carriers or diluents and a compound according to claim 1.

Claims 30-45 (cancelled).